

INDEX TO VOL. XXVI.

- A** **CAPNIA**, shock, and anaesthesia, 260.
 Adrenalectomy and glycosuria, 287.
 Adrenalin, action of, 26.
 Ammonia tetany, 407.
 Anaesthesia, acapnia, and shock, 260.
 Anaphylaxis, affected by atropin, 439.
 Aspartic acid, estimation of, 420.
 Atropin, prophylactic action in anaphylaxis, 439.
AUER, J. The prophylactic action of atropin in immediate anaphylaxis of guinea pigs.—Third communication, 439.
- B** **BENEDICT, F. G.** A comparison of the direct and indirect determination of oxygen consumed by man, 15.
BENEDICT, F. G., J. A. RICKE, and L. E. EMMES. Control tests of a respiration calorimeter, 1.
 Blood, diastases, relation to pancreas, 347.
 —, thrombin, antithrombin, and prothrombin, 453.
 Blood pressure, affected by pituitary extract, 178.
 —, affected by sciatic stimulation and by curare, 233.
 —, modified by urine and adrenalin, 26.
- C** **CALORIMETER, I.**
CARLSON, A. J., and A. L. CRITTENDEN. The relation of ptyalin concentration to the diet and to the rate of secretion of the saliva, 169.
CARLSON, A. J., and A. WOELFEL. On the internal secretion of the thyroid gland, 32.
CARREL, A., G. M. MEYER, and P. A. LEVENE. The influence of the removal of fragments of the gastro-intestinal tract on the character of nitrogen metabolism.—III. The excision of the stomach, 369.
 Cell-division, in unfertilized eggs, 106.
CRITTENDEN, A. L. See **CARLSON** and **CRITTENDEN**, 169.
 Curare, action on circulation, 233.
- D** **DIET**, affects ptyalin secretion, 169.
- E** **DESTIN**, analysis of, 205.
EISENBREY, A. B. See **PEARCE** and **EISENBREY**, 26.
EMMES, L. E. See **BENEDICT, RICKE, and EMMES**, 1.
 Eustachian pouches of horse, 229.
- F** **FISH, P. A.** The exchange of air in the Eustachian or guttural pouches of the horse, 229.
FJELSTAD, C. A. The effect of thyroidectomy on the development of active immunity in rabbits, 72.
- G** **GALLOWAY, T. C., JR.** See **OTTEN** and **GALLOWAY**, 347.
 Glutaminic acid, estimation of, 420.
 Glycosuria and adrenalectomy, 287.
GREEN, J. R. Contributions to the physiology of lymph.—XII. Methods of inducing the appearance of polymorphonuclear leucocytes in the lymph, 68.
GUTHRIE, C. C., and A. H. RYAN. On the alleged specific anesthetic properties of magnesium salts, 329.
- H** **HAMBURGER, W. W.** The action of extracts of the anterior lobe of the pituitary gland upon the blood pressure, 178.
HENDERSON, Y., and M. McRAE SCARBROUGH. Acapnia and shock.—VI. Acapnia as a factor in the dangers of anaesthesia, 260.

- HOSKINS, R. G. Congenital thyroidism: An experimental study of the thyroid in relation to other organs of internal secretion, 426.
- HOUGH, T. The influence of increase of alveolar tension of oxygen on the respiratory rate and the volume of air respired while breathing a confined volume of air, 156.
- HOWELL, W. H. The preparation and properties of thrombin, together with observations on antithrombin and prothrombin, 453.
- I**MMUNITY, influenced by thyroidectomy, 72.
- Internal secretion of thyroid gland, 32.
- , inter-relation of organs, 426.
- J**ACKSON, D. E. On the pharmacological action of uranium, 381.
- JACOBSON, C. The concentration of ammonia in the blood of dogs and cats necessary to produce ammonia tetany, 407.
- JACOBSON, C. The rate of healing of wounds in denervated skin areas and its bearing on the theory of trophic nerves, 413.
- JONES, D. B. See OSBORNE and JONES, 212, 305.
- K**LEINER, I. S. See MENDEL and KLEINER, 396.
- Knee jerk, 474.
- L**EVENE, P. A. See CARREL, MEYER, and LEVENE, 369.
- LIDDLE, L. M. See OSBORNE and LIDDLE, 295, 420.
- LILLIE, R. S. The physiology of cell-division. — II. The action of isotonic solutions of neutral salts on unfertilized eggs of *Asterias* and *Arbacia*, 106.
- LINGLE, D. J. The mechanism of tone in plain muscle, 361.
- Lymph, leucocytes in, 68.
- M**AGNESIUM salts, anæsthetic properties, 320.
- Make and break key, 181.
- MARTIN, E. G. A quantitative study of Faradic stimulation. — IV. The make and break key, 181.
- MCGUIGAN, H. Adrenalectomy and glycosuria, 287.
- MEIGS, E. B. The effects of distilled water and of various solutions on the weight and length of striated muscle, 191.
- MENDEL, L. B., and I. S. KLEINER. The fate of saccharose after parenteral introduction in animals, 306.
- MENDEL, L. B., and V. C. MYERS. The metabolism of some pyrimidine derivatives, 77.
- Metabolism, after excision of stomach, 369.
- , in pregnancy, 134.
- , of pyrimidine derivatives, 77.
- , oxygen consumption, 15.
- MEYER, G. M. See CARREL, MEYER, and LEVENE, 369.
- Morphine poisoning, relation to thyroidectomy, 354.
- MURLIN, J. R. The metabolism of development. — I. Energy metabolism in the pregnant dog, 134.
- Muscle, influenced by distilled water and various solutions, 191.
- , tone, 361.
- MYERS, V. C. See MENDEL and MYERS, 77.
- O**LDS, W. H., JR. The effects of thyroidectomy on the resistance of rats to morphine poisoning, 354.
- OSBORNE, T. B., and D. B. JONES. A consideration of the sources of loss in analyzing the products of protein hydrolysis, 305.
- OSBORNE, T. B., and D. B. JONES. Determining the quantity of mono-amino-acids yielded by proteins when hydrolyzed with acids, 212.
- OSBORNE, T. B., and L. M. LIDDLE. Notes on the analysis of edestin and zein, 295.
- OSBORNE, T. B., and L. M. LIDDLE. The separation and estimation of aspartic and glutaminic acids, 420.
- OTTEN, H., and T. C. GALLOWAY, JR. The relation of the pancreas to the blood diastases in the dog, 347.
- Oxygen consumption, 15.
- P**ANCREAS, relation to blood diastases, 347.
- Parenteral introduction of saccharose, 396.
- PEARCE, R. M., and A. B. EISENBREY. The mechanism of the depressor action of dog's urine, with some observations on the antagonistic action of adrenalin, 26.

- PILCHER, J. D. See SOLLMANN and PILCHER, 233.
- Pituitary gland, action on blood pressure, 178.
- Pregnancy, metabolism in, 134.
- Protein, hydrolysis, 212, 305.
- Ptyalin, relation to diet, 169.
- Pyrimidine derivatives, 77.
- R**ESPIRATION calorimeter, 1.
- Respiration, related to alveolar tension of oxygen, 156.
- RICHE, J. A. See BENEDICT, RICHE, and EMMES, 1.
- RYAN, A. H. See GUTHRIE and RYAN, 329.
- S**ACCHAROSE, parenteral introduction, 396.
- Saliva, secretion affected by ptyalin concentration, 169.
- SCARBROUGH, M. McRAE. See HENDERSON and SCARBROUGH, 260.
- Secretion, of saliva, relation to ptyalin, 169.
- Shock, acapnia, and anaesthesia, 260.
- SNYDER, C. D. The latency of knee-jerk response in man as measured by the thread galvanometer, 474.
- SOLLMANN, J., and J. D. PILCHER. The reactions of the vasomotor centre to sciatic stimulation and to curare, 233.
- Stimulation, with make and break currents, 181.
- Stomach, effect of removal on metabolism, 309.
- T**ROPHIC nerves, theory tested by healing of wounds in denervated areas, 413.
- Thrombin, antithrombin, and prothrombin, 453.
- Thyroid, relation to immunity, 72.
- , relation to morphine poisoning, 354.
- , secretion of, 32.
- Thyroidism, congenital, 426.
- U**RANIUM, action of, 381.
- Urine, depressor action, 26.
- V**ASOMOTOR centre, reaction to sciatic stimulation and to curare, 233.
- W**OELFEL, A. See CARLSON and WOELFEL, 32.
- Wounds, healing in denervated areas related to trophic nerves, 413.
- Z**EIN, analysis of, 295.

th

GENERAL LIBRARY,
UNIV. OF MICH.
OCT 8 1910

THE AMERICAN JOURNAL OF PHYSIOLOGY

EDITED FOR
The American Physiological Society

CONTENTS

- THE PREPARATION AND PROPERTIES OF THROMBIN, TOGETHER WITH
OBSERVATIONS ON ANTITHROMBIN AND PROTHROMBIN. *By W. H.
Howell* 453
- THE LATENCY OF KNEE-JERK RESPONSE IN MAN AS MEASURED BY
THE THREAD GALVANOMETER. *By Charles D. Snyder* 474

VOL. XXVI. — No. VII.

Issued October 1, 1910

BOSTON, U.S.A.

1910

THE AMERICAN JOURNAL OF PHYSIOLOGY is issued monthly. Each volume will contain about five hundred pages. The price of one volume, sent postage free to subscribers in the United States and Canada, is five dollars; to subscribers in other countries, five dollars and twenty-five cents. The price of Volumes One, Two, and Three will be six dollars to domestic subscribers, and six dollars and twenty-five cents to foreign subscribers. All subscriptions are payable in advance.

Subscriptions, manuscript, and all other communications should be sent to THE AMERICAN JOURNAL OF PHYSIOLOGY, Box 127, Back Bay Post Office, Boston, Mass., U. S. A.

Contributors will receive fifty copies of their papers free; additional copies may be obtained at cost.

Copyright, 1910, by THE UNIVERSITY PRESS.

Printed at The University Press, Cambridge, Mass.

Entered at the Boston, Mass., Post Office as second-class mail matter, Feb. 11, 1903.

